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Om protein - protein search, using sw model.

Run on:

March 17, 2001, 21:10:03 ; Search time 65.38 Seconds

(without alignments)

159.026 Million cell updates/sec

Title: US-09-456-306-2  
 Perfect score: 2985  
 Sequence: 1 MAHSYAEQLIDTLEAQGVKR.....GGVGAMIDLARSNRNTPP 579

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 174772 seqs, 17957048 residues

Total number of hits satisfying chosen parameters: 174772

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%

Listing first 45 summaries

Database : Issued\_Patents\_AA:\*

1: /cgn2\_6/ptodata/2/1aa/5A\_COMBO.pep:\*

2: /cgn2\_6/ptodata/2/1aa/5B\_COMBO.pep:\*

3: /cgn2\_6/ptodata/2/1aa/6\_COMBO.pep:\*

4: /cgn2\_6/ptodata/2/1aa/8\_PCTUS\_COMBO.pep:\*

5: /cgn2\_6/ptodata/2/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

#### ALIGNMENTS

RESULT 1  
 US-08-26-125-2  
 Sequence 2, Application US/08426125  
 Patient No. 5853973

#### GENERAL INFORMATION:

APPLICANT: Kakefuda, Genichi

APPLICANT: Ott, Karl-Heinz

APPLICANT: Kwagh, Jee-Gyu

APPLICANT: Stockton, Gerald W.

TITLE OF INVENTION: Structure-Based Designed Herbicide

TITLE OF INVENTION: Resistant Products

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Darby & Darby

STREET: 805 Third Avenue

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10022-7513

#### COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk  
 COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/426,125

FILING DATE: 20-APR-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Robinson, Joseph

REGISTRATION NUMBER: 33,448

REFERENCE/DOCKET NUMBER: 0646/0A674

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212)-527-7783

TELEFAX: (212)-753-6237

TELEX: 236687

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 585 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORIGINAL SOURCE:

ORGANISM: Lactobacillus plantarum

US-08-426-125-2

Query Match Best Local Similarity 18.8%; Score 561; DB 2; Length 585;



COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/452,075  
 FILING DATE: 26-MAY-1995  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: JP 116340/1994  
 FILING DATE: 30-MAY-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: ODLON, NORMAN F  
 REGISTRATION NUMBER: 08/452,075  
 REFERENCE/DOCKET NUMBER: 10-741-0  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (703) 413-3000  
 TELEFAX: (703) 413-2220  
 TELEX: 24855 OAT UR  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 548 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-452-075-3

Query Match 17.2%; Score 514; DB 2; Length 548;  
 Best Local Similarity 30.1%; Pred. No. 3e-43; Mismatches 164; Conservative 91; MisMatches 249; Indels 40; Gaps 13; Matches 164; Conservatve 91; Mismatches 249; Indels 40; Gaps 13;

Qy 6 AEQLIQPLEAQVVKRIVYGLGVGSNLPNIVDPAVRQSDIENWHRNEAAFAAGAESLTIG 65  
 Db 4 AQWVHVHALRAGQVNITYFGYPGGAIMPVYDALVDDGGYVHLLRHEOGAMAATGYARATGK 63  
 Qy 66 LAVCAASCGPGNTHLQGGLYSIRNGAKVLTASHIPSAQIGSTFFOETHPELFKECG 125  
 Db 64 TGVCIATSGPGATNLITGLADALLDSPVWATGQVSAPPFCTDAQEVDVIGLSSLACTK 123  
 Qy 126 YCEMVNGGEQGERILHHAQIYSTMAGK-GVSVVWPGDIAKEDAGDGTYNSNTISGTPV 184  
 Db 124 HSFLVGSLELPRLMAEAFDVCASGRGPVLPVLDIPKDI-QLASGDLPEWFTIVEN--EVT 180  
 Qy 185 FPDPTEAALVAINNAKSVTLFCGAGVKNARA-QVLELAEKIKSPIGHALGGKQVYQH 242  
 Db 181 FPH-AEVEAQOMLAKAQPKMLYVGGVGMQAAQPAIREFLAATKHPATCTKIGLGA 239  
 Qy 243 ENPFEVGMGSLGIGYGAQCVDASNEADLILGLDF----PVSDFLRKDQVAQDINGAH 296  
 Db 240 DYPYIYLGMGLMHGTKAANFAQOCEDLILIAVGRARFDDRVTKLNTFAPHASVTHMDIDPAE 299  
 Qy 297 IGRRTVVKYPVPGDVAATENILPHVKEKTRSFLORMKAHERKLSSVETYTHNEKH 356  
 Db 300 MNKLQRQHVALQGDNLNALLPQLQPLNQCDMWHQHCAOLDEHWSR-----YDH---- 347  
 Qy 357 VPIHPEVVASTINELADK--DAVFTVDTGMONVWHARYIEN--PECTRDFVGSFRHGM 411  
 Db 348 -PGDATYAPLUJKQLSDRKPAQCVWTDQGQHOMWAQHIAHTRP--INFITSSGIGM 403  
 Qy 412 ANALPHAIQAGQSVDRNQVITAMCGDGGLMLIGELLTIVKHLPLKAVFVNNSLGHVAKL 471  
 Db 404 GFGLPAPAVGAQVARPNDTVUCISGDGSFMMVNOELGTVRKQLPLKTVLNDNQRGLGMVRQ 463  
 Qy 472 EMLVEQOPEFG---DHEENFAELAAAGIKSVRITDPPKVREQLAELAYPGVLIID 527  
 Db 464 WQQLFQOBYRSSETTLNDP--FLMLASAFGNGHQHITRKDOVEAALDTMLNSDGPYLH 521  
 Qy 528 IWTD 531

Query Match 16.7%; Score 497.5; DB 2; Length 671;  
 Best Local Similarity 27.4%; Pred. No. 2e-41; Mismatches 157; Conservative 97; MisMatches 261; Indels 59; Gaps 13; Matches 157; Conservatve 97; Mismatches 261; Indels 59; Gaps 13;

Qy 6 AEQLIQPLEAQVVKRIVYGLGVGSNLPNIVDPAVRQSDIENWHRNEAAFAAGAESLTIG 64  
 Db 100 ADIVALEALERQVETVFAVPGGASMEIHOALTRSSSRISVNLPRQEGGFAAEYARSSG 159  
 Qy 65 ELAVCAASCGPGNTHLQGGLYSIRNGAKVLTASHIPSAQIGSTFFOETHPELFKECG 124  
 Db 160 KPGICIAATSGPGATNLVSLGLADALLDSPVWATGQVPRMRGIDTAQEFPTIVETRSIT 219  
 Qy 125 YCEMVNGGEQGERILHHAQIYSTMAGK-GVSVVWPGDIAKEDAGDGTYNSNTISGTPV 183  
 Db 220 KHNLYLWMDVEDIPERIETEFLAATGSPCPVLPVKD1-QQLAIPNNEQAMRIPGMS 278  
 Qy 184 VEPDPTEAAL--WEAINNAKSVTLFCGAGVKNARAQVLELAEKIKSPIGHALGGKQVYQH 240  
 Db 279 RMRPFPEDSHQJQVIRLISESKKVLVYGGCLNSDLSDELGRFVLTGIPVASTMLGGSY 338  
 Qy 241 OHENPEFEGMGSGLGIGYGAQCVDASNEADLILGLDF----PVSDFLRKDQVAQDINGAH 296

Db-4

3.39 PCDDESLIMLGMIGTVVANYAVEHSDLLAFGVRFDDRTGKLEAFASRAKIVHIDS 398

2.95 AHGRRTTWVTPVPGDVAAATENTLPVHVKRKTDSRFIDRML--KAHERKKSVVVEYTHN 352

QY 399 AEIGKNKTHPVSVCGDVKALOG-----MNKVLENRAEELKLDQFGVWNELN 445

QY 353 VEH-----VPVHPEYVAVILNEFLADKDAVFTWDTCACNVHARRYLENPETRDF 402

Db-4 446 VOKGKFPLSFKTRGEAIPPOYAIKVLDLBTLDKGAIISTVGVGQHOMWAQOFQYKKPRROW 505

QY 403 VGSRHRGTMANALPHAGNQSVDRNRQVAMCGDGGGMLGELLYTVKHOPLKAVVN 462

Db 505 LSSGGLGANGFGLPAATGASAVANPDAITVDDGSEIMMVOELATIRVNPVKULLN 565

QY 463 NSSGMVKLEMVL-----GOPEFGTDHREV--NPAETAAAGIKSYKTRD P 507

Db 565 NQHIGMV--MQRDRFVYKANRAHTFLGD--AQEDEFPNMLFAAACGIPAAKVTKK 619

QY 508 KKVREQLAAEALAYPGPVLDIVDPNALSIPTI 541

Db 620 ADLREAIQTMDDTPGPYIILDVIC-PHOEHVLPMI 652

RESULT 5

US 08-455-355-8

; Sequence 8, Application US/08455355

; Patent No. 592837

GENERAL INFORMATION:

APPLICANT: Kakefuda, Genichi

APPLICANT: Ott, Karl Heinz

APPLICANT: Kwagh, Jae-Gyu

APPLICANT: Stockton, Gerald W.

TYPE OF INVENTION: Structure Based Designed Herbicide

TITLE OF INVENTION: Resistant Products

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Darby & Darby

STREET: 805 Third Avenue

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10022-7513

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/455, 355

FILING DATE: 31-MAY-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Robinson, Josephn

REGISTRATION NUMBER: 33, 448

REFERENCE/DOCKET NUMBER: 0046/1A674-US1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212)-527-7783

TELEFAX: (212)-753-6237

TELE: 236687

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 671 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ORGANISM:

Arabidopsis thaliana

US-08-455-355-8

Query Match 16.7%; Score 497.5; DB 2; Length 671;  
 Best Local Similarity 27.4%; Pred. No. 2e-41; Mismatches 261; Indels 59; Gaps 13;  
 Matches 157; Conservatve 97; Mismatches 261; Indels 59; Gaps 13;

6 AQQQDIDTLEAQOQVRYGLQVDSLNPITDVAY-ROSDIEWHRVNEAAFFAAGAESLTC 64  
 100 ADLVEALERQSVETFAYPGGASMIEHQALTSSRSIRNVLPRHQGGYFAEYARSSG 159  
 65 EIAVCAASCGGGNTHTQGLYDSHRNGAKVLAIA SHIPSQIGSITFFQETHPELFKECS 124  
 160 KPGICATSGPATNLVSGLADALLSDVPLATTCQVPRMIGTDAFOETPPIVETRST 219  
 125 GYCEMMNGECCRILHQAOSTMAGC-GVSVVVPGDIKEADAGDTGVSNTTSSGTV 183  
 220 KHNLYLMDVEDIPTRIIEAFFLATSGRPGVLYDVPKD1-QQLAIPNREQARLPGMS 278  
 184 VFPDPPEAAAL---VIAINAKASVTFPGAGVKARAOQYELAARIKSTGHALGGKTY 240  
 279 RMKPKPFDHSLEQVPLKESKPKPLVGGCCLNSSDELGRFVFLTGIVASTMLGSY 338  
 241 QHENPFPEVGMSGLLGSGACVDAASNFADLLTLLGDF-----PVSDFLPKDNTAQVDING 294  
 339 PCDDELSLHMGMHGIVYANAVEHSDLLAFLGYFRFDDRTGKLEAFASRAKTHIDIDS 398  
 295 AHIGRTTIVKPVPTGDAVATIENILPHVKEKTDKSFLDRML-KAHERKLSSVETVTHN 352  
 399 AEIGKKNKTPHVSVCGDVKIALQG-----MNKVLEHRAEELKDFCQWNRNLM 445  
 353 VEH-----VPIHPIVWASLINEADKDAVFTVGDGMVWHARYTENPEGTFD 402  
 446 VQKQKTPPLSEKTFGEAPPOYAYKVDLTDGKAIISTGVQHOMWAQFYNKKPRROW 505  
 403 VGSFRHGTMANALPHAIGAQSVDNRQVAMC3GQGGLMGLGSELTIVLHQLKAVUN 462  
 506 LSSGGIGAMGFGLRAIGASVANFDALIVDIDGDSF1IMNVOGLATKVENLIVKVLIN 565  
 463 NSLSEMVKLEM-----GOFERGTDHEEV--NEAEIAAAGKSVRITDP 507  
 566 NQHIGMV--MQWEDRFYKANRAHFLGDP--AQEDETFPNMLFAAACGIPFAARVTKK 619  
 508 KKVREQLAELAIVAYCPVLDIVTPNALSIPPI 541  
 620 ADLREAIQTMIDTPGPYLLDVC-PHQEHLVPMI 652

SULT 6  
 -08-363-208-2  
 Sequence 2, Application US/08363208  
 GENERAL INFORMATION:  
 APPLICANT: Sathasivan, Kangasabapathi  
 APPLICANT: Murai, No. 5767366imoto  
 TITLE OF INVENTION: A Mutant Acetoacetate Synthase Gene From  
 TITLE OF INVENTION: Arabidopsis Thaliana For Conferring Imidazolinone  
 NUMBER OF INVENTION: Resistance To Crop Plants  
 NUMBER OF SEQUENCES: 2  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Lilevlyn A. Proctor, Sr.  
 STREET: 11481 Sheraton Drive  
 CITY: Baton Rouge,  
 STATE: LA  
 COUNTRY: USA  
 ZIP: 70815  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/363, 208  
 FILING DATE:

APPLICATION NUMBER: US 07/657,429  
 FILING DATE: 19-FEB-1991  
 CLASSIFICATION: 800  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Proctor, Sir., Llewellyn A.  
 REFERENCE/DOCKET NUMBER: 201152  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (504)275-8689  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 670 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-363-208-2

Query Match 16.5%; Score 493; DB 1; Length 670;  
 Best Local Similarity 27.5%; Pred. No. 5.6e-41; Matches 158; Conservative 97; Mismatches 259; Indels 60; Gaps 14;

Qy 6 AEQOLIDLEAQGVKRYGLVGLGDSLNPVIDAV-RQSDIEWHVRNEEAAFAAGAESLTG 64  
 Db 100 ADILVEALERQEVETVAVPGGASMETHQALURRSSTIRNVLPRHEQGVFAAEGYARSSG 159  
 Qy 65 ELAVCAASCGPGNTHLTOGLYDHSRNGAKVLAIASTHSITPSAQGTSFETOETHPEILFKECS 124  
 Db 160 KPGCICATSGPGATNLVSGGLADALDSVPLVATIGQVPRRMIGTDAFQETPVEVIRSI 219  
 Qy 125 GYCEMVNGGEOGERILHHA-ICSTMAGK-GVSVVWPGDIAKEDAGDGTYSNSTISSTGPV 183  
 Db 220 KHYLVMVDEDIPTITEAFFLATSGRGPVLDVPKD1-OQOLATPNWEQMLRPGYMS 278  
 Qy 184 VFDPTERAAAL--VEAINNAKSVTLECGAGVKAQVLELAEKIKSPIGHALGGKQYI 240  
 Db 279 RMKPPPEDSHLQBLQVRLJSESKRKPVLVGGSLNSDELGRFVELTGIPVASTLMLGGSY 338  
 Qy 241 QHENPFENGMSGVSLGLGAGCVDASNEADLLILGTDF----PYSDLPLKDNQAQDING 294  
 Db 339 PCDDELSLQMLGMHGTWVANYAVENHSDLLAFCGRFDRVKGKLEAFASRAKIVHIDS 398  
 Qy 295 AHGRRWVVKYPTGVDYAVATIENILPHVKEKTDSEFDRLM--KAHKRKLSSVYETYHN 352  
 Db 399 AEIGKKNKTPPHVSVCGDKLQGKLAQG----MNKVLENRAEELKLDGQWNRNELN 445  
 Qy 353 VEKH-----VPVHEPVYASILNEADKDAVFTVDTGMCNMVHARYIENPEGTRDF 402  
 Db 446 VQKQKPLSLFKTGEAIPQVAKVQVLDLTDCKAIIISTGVQHOMMAQFY-NYKPROW 504  
 Qy 403 VGSFRIGTMANALPHATGAQSVDNRNRVIAAMCGGGGMLGELLTWKLHQPLKAVVN 462  
 Db 505 LSSGGGLGAMGFCPLAATGASVAMPDAVTDIDGGSISMVYQELATRVENLPVKILLN 564  
 Qy 463 NSSLGMWVKEMLWV-----GQEPFTDHHEV-NFAEAIAAGGKSVRITDP 507  
 Db 565 NQHLMWV--MQWDRYKANRMTFLGDP--AQEDEIIPNMLFAAACGIPAAVVTKK 618  
 Qy 508 KVRQEQLEAALAVPGPVLIDVTPNALSIPPTI 541  
 Db 619 ADLREAQIOTMLDPGPVLLDVIC-PHOEHVLPMI 651

Query Match 16.0%; Score 477; DB 2; Length 652;  
 Best Local Similarity 26.1%; Pred. No. 2.2e-39; Matches 148; Conservative 104; Mismatches 270; Indels 44; Gaps 12;

Qy 6 AEQOLIDLEAQGVKRYGLVGLGDSLNPVIDAV-RQSDIEWHVRNEEAAFAAGAESLTG 64  
 Db 82 ADILVEALERQEVETVAVPGGASMETHQALURRSSTIRNVLPRHEQGVFAAEGYARSSG 141  
 Qy 65 ELAVCAASCGPGNTHLTOGLYDHSRNGAKVLAIASTHSITPSAQGTSFETOETHPEILFKECS 124  
 Db 142 KPGCICATSGPGATNLVSGGLADALDSVPLVATIGQVPRRMIGTDAFQETPVEVIRSI 201  
 Qy 125 GYCEMVNGGEOGERILHHA-ICSTMAGK-GVSVVWPGDIAKEDAGDGTYSNSTISSTGPV 183  
 Db 202 KHYLVMVDEDIPTITEAFFLATSGRGPVLDVPKD1-OQOLATPNWEQMLRPGYMS 260  
 Qy 184 VFDPTERAAAL--VEAINNAKSVTLECGAGVKAQVLELAEKIKSPIGHALGGKQYI 240  
 Db 261 RLQPPOPEVSQLQVRLJSESKRKPVLVGGSLNSSEBLGRFVELTGIPVASTLMLGGSY 320  
 Qy 241 QHENPFENGMSGVSLGLGAGCVDASNEADLLILGTDF----PYSDLPLKDNQAQDING 294  
 Db 321 PCNDELSLQMLGMHGTWVANYAVENHSDLLAFCGRFDRVKGKLEAFASRAKIVHIDS 380  
 Qy 295 AHGRRWVVKYPTGVDYAVATIENILPHVKEKTDSEFDRLM--RMLKAHKRKLSSVYETYHN 349  
 Db 381 AEIGKKNKTPPHVSVCGDKLQGKLAQG----MNKVLENRAEELKLDGQWNRNELN 440  
 Qy 350 THNVEKHVVKYPTGVDYAVATIENILPHVKEKTDSEFDRLM--RMLKAHKRKLSSVYETYHN 409  
 Db 441 GE-----AIPQVAKVQVLDLTDCKAIIISTGVQHOMMAQFY-KR-PROWLSSGLG 493  
 Qy 410 TMANALPHATGAQSVDNRVIAAMCGGGGMLGELLTWKLHQPLKAVVNNSLGMV 469

RESULT 7  
 US-08-126-125-9  
 Sequence 9, Application US/08426125  
 Patient No. 5853973  
 GENERAL INFORMATION  
 APPLICANT: Kakefuda, Genichiro  
 APPLICANT: Ott, Karl Heinz  
 APPLICANT: Kwagh, Jae-Gyu  
 APPLICANT: Stockton, Gerald W.  
 TITLE OF INVENTION: Structure-Based Designed Herbicide

RESULT 8  
US-08-455-355-9  
Sequence 9, Application US/08455355  
; Patent No. 592937  
GENERAL INFORMATION:  
; APPLICANT: Kakefuda, Genichii  
; APPLICANT: Ott, Karl-Heinz  
; APPLICANT: Kwagh, Jae-Gyu  
; APPLICANT: Stockton, Gerald W.  
TITLE OF INVENTION: Structure-Based Designed Herbicide  
; TITLE OF INVENTION: Resistant Products  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Darby & Darby  
STREET: 805 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10022-7513  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/455,355  
; FILING DATE: 31-MAY-1995  
; CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
; NAME: Robinson, Joseph  
; REGISTRATION NUMBER: 33,448  
REFERENCE/DOCKET NUMBER: 0646/1A674-US1  
TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212)-522-7783  
; TELEFAX: (212)-753-6237  
TELEX: 236687  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
; LENGTH: 652 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
; ORGANISM: Brassica napus  
; US-08-455-355-9

RESULT 9  
US-08-426-125-7  
; Sequence 7, Application US/08426125  
; Patent No. 583973  
GENERAL INFORMATION:  
; APPLICANT: Kakefuda, Genichii  
; APPLICANT: Ott, Karl-Heinz  
; APPLICANT: Kwagh, Jae-Gyu  
; APPLICANT: Stockton, Gerald W.  
TITLE OF INVENTION: Structure-Based Designed Herbicide  
; TITLE OF INVENTION: Resistant Products  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Darby & Darby  
STREET: 805 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10022-7513  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/426,125  
; FILING DATE: 20-APR-1995  
; CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
; NAME: Robinson, Joseph  
; REGISTRATION NUMBER: 33,448  
REFERENCE/DOCKET NUMBER: 0646/0A674  
TELECOMMUNICATION INFORMATION:  
; TELEFAX: (212)-753-6237  
; TELEPHONE: (212)-522-7783  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
; LENGTH: 664 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:

RESULT 9  
US-08-426-125-7  
; Sequence 7, Application US/08426125  
; Patent No. 583973  
GENERAL INFORMATION:  
; APPLICANT: Kakefuda, Genichii  
; APPLICANT: Ott, Karl-Heinz  
; APPLICANT: Kwagh, Jae-Gyu  
; APPLICANT: Stockton, Gerald W.  
TITLE OF INVENTION: Structure-Based Designed Herbicide  
; TITLE OF INVENTION: Resistant Products  
NUMBER OF SEQUENCES: 10  
CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Darby & Darby  
STREET: 805 Third Avenue  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10022-7513  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/426,125  
; FILING DATE: 20-APR-1995  
; CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
; NAME: Robinson, Joseph  
; REGISTRATION NUMBER: 33,448  
REFERENCE/DOCKET NUMBER: 0646/0A674  
TELECOMMUNICATION INFORMATION:  
; TELEFAX: (212)-753-6237  
; TELEPHONE: (212)-522-7783  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
; LENGTH: 664 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:

;      TOPOLGY: linear  
;      MOLECULE TYPE: protein  
;      US-08-426-125-7

;      SOFTWARE: PatentIn Release #1.0, version #1.30  
;      CURRENT APPLICATION DATA:  
;      APPLICATION NUMBER: US/08/455,355  
;      FILING DATE: 31-MAY-1995

;      CLASSIFICATION: 435  
;      ATTORNEY/AGENT INFORMATION:  
;      NAME: Robinson, Joseph  
;      REFERENCE/DOCKET NUMBER: 33-448

;      TELECOMMUNICATION INFORMATION:  
;      TELEPHONE: (212) 527-7783  
;      TELEFAX: (212) 527-6237

;      INQUIRIES FOR SEQ ID NO: 7:  
;      SEQUENCE CHARACTERISTICS:  
;      LENGTH: 664 amino acids  
;      TYPE: amino acid  
;      STRANDEDNESS:  
;      MOLECULE TYPE: protein  
;      US-08-455-355-7

Query Match      15.2%; Score 454; DB 2; Length 664;  
Best Local Similarity 25.1%; Pred. No. 4.9e-37;  
Matches 145; Conservative 102; Mismatches 263; Indels 68; Gaps 13;  
Qy      6 AEQLIDLEAQEVKRTYGLVGSLSNPTDAV-RQSDTEWHRNEEAFAAGAESLITG 64  
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Qy      125 GICEMVNGEGERILHAIQSTMAGK-GVSVVVIQDIAKEDAGDGTYSNSTISSCTPV 183  
Db      214 KHNLVMDVEDIPRVREAFFLARSGRGPVLDVPKDQO-----L 256  
Qy      184 VFPD-----TE--AALVA--INNAKSVTLCAGCAGVKNARNQLEAE 224  
Db      257 VFDWDQPMRLPQGYMSRLPKLQNLMLQEVRLISESKPVLYVGGCQSOSSEELRFEV 316  
Qy      225 KIKSPIGHALGGKQYIQHENPFEVGMGSLGLGAGCVDASNEADLLILGTDF----PY 278  
Db      317 LTGIPVASTLMLGALGAFPTGDELSTLSMGLGMHTVYANVADSDLLAFLFGVRDDRVGKL 376  
Qy      279 SDFLPKDNQAQDINGHIGRRRTVKPVPTGDAVTTENILPHVKEKTDRLMKAH 338  
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Qy      339 ERKLSSVVTYHINVERH-VPHPEVVAIILNEBLADDAVFDVTGNCNVNHWARYTNE 397  
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Qy      398 GTRDFVGSFRHGMANALPHATGAQSVDNRQVIAACGDDGLGMLGELLTWKLHQLPK 457  
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Qy      458 AVVFNNSLGMVKLEMILVEGQPF-----GTDEEV---NFAEIAAAAGIKSVR 503  
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Qy      504 ITDPKKYREQLAENALVPGPVLIDIVDNPNALSIPIPTI 541  
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Query Match      15.2%; Score 454; DB 2; Length 664;  
Best Local Similarity 25.1%; Pred. No. 4.9e-37;  
Matches 145; Conservative 102; Mismatches 263; Indels 68; Gaps 13;  
Qy      6 AEQLIDLEAQEVKRTYGLVGSLSNPTDAV-RQSDTEWHRNEEAFAAGAESLITG 64  
Db      94 SDVLVEALEREGTIDVAYPGCASMETHQLTRSSIRNVLDRHEOGVFAAEQYARATG 153  
Qy      125 GICEMVNGEGERILHAIQSTMAGK-GVSVVVIQDIAKEDAGDGTYSNSTISSCTPV 183  
Db      214 KHNLVMDVEDIPRVREAFFLARSGRGPVLDVPKDQO-----L 256  
Qy      184 VFPD-----TE--AALVA--INNAKSVTLCAGCAGVKNARNQLEAE 224  
Db      257 VFDWDQPMRLPQGYMSRLPKLQNLMLQEVRLISESKPVLYVGGCQSOSSEELRFEV 316  
Qy      225 KIKSPIGHALGGKQYIQHENPFEVGMGSLGLGAGCVDASNEADLLILGTDF----PY 278  
Db      317 LTGIPVASTLMLGALGAFPTGDELSTLSMGLGMHTVYANVADSDLLAFLFGVRDDRVGKL 376  
Qy      279 SDFLPKDNQAQDINGHIGRRRTVKPVPTGDAVTTENILPHVKEKTDRLMKAH 338  
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Qy      339 ERKLSSVVTYHINVERH-VPHPEVVAIILNEBLADDAVFDVTGNCNVNHWARYTNE 397  
Db      435 RDLTVOKVKYPLNPKFGDAIPPOYATQVIDELTNESAITSTVGQHOMWAQYKRYK 494  
Qy      398 GTRDFVGSFRHGMANALPHATGAQSVDNRQVIAACGDDGLGMLGELLTWKLHQLPK 457  
Db      495 -PROWLTSGGLGMGEGFLPAATGAAGVGRPDEVVWIDGGSFTIMVQELATIKVNPVK 553  
Qy      458 AVVFNNSLGMVKLEMILVEGQPF-----GTDEEV---NFAEIAAAAGIKSVR 503  
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Qy      504 ITDPKKYREQLAENALVPGPVLIDIVDNPNALSIPIPTI 541  
Db      609 VHRDDLRAIAOKMLDIPGPYLUUDTV- PHQHVLPMI 645

RESULT 10  
;      US-08-455-355-7  
;      Sequence 7, Application US/08455355  
;      Patent No. 592937  
;      GENERAL INFORMATION  
;      APPLICANT: Kakefuda, Genichiro  
;      APPLICANT: Ott, Karl-Heinz  
;      APPLICANT: Kwagh, Jae-Gyu  
;      APPLICANT: Stockton, Gerald W.  
;      TITLE OF INVENTION: Structure-Based Designed Herbicide  
;      TITLE OF INVENTION: Resistant Products  
;      NUMBER OF SEQUENCES: 10  
;      CORRESPONDENCE ADDRESS:  
;      ADDRESSEE: Darby & Darby  
;      STREET: 805 Third Avenue  
;      CITY: New York  
;      STATE: New York  
;      COUNTRY: USA  
;      ZIP: 10022-7513  
;      COMPUTER READABLE FORM:  
;      MEDIUM TYPE: Floppy disk  
;      COMPUTER: IBM PC compatible  
;      OPERATING SYSTEM: PC-DOS/MS-DOS

RESULT 11  
;      US-08-426-125-6  
;      Sequence 6, Application US/08426125  
;      Patent No. 5853973  
;      GENERAL INFORMATION:

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RESULT 12
US-08-455-355-6

; Sequence 6, Application US/08455355
; GENERAL INFORMATION:
; Patent No. 592837
; APPLICANT: Kakufuda, Genichi
; APPLICANT: Ott, Karl Heinz
; APPLICANT: Kwagh, Jae-Gyu
; APPLICANT: Stockton, Gerald W.
; TITLE OF INVENTION: Structure-Based Designed Herbicide
; TITLE OF INVENTION: Resistant Products
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022-7513
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC:DOSSMS:DOS
; SOFTWARE: PatentIn Release #1.0, version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,355
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A674-US1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)-527-7783
; TELEFAX: (212)-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 667 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; US-08-455-355-6
;
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COMPUTER READABLE FORM:

COMPUTER TYPE: Floppy disk  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 APPLICATION NUMBER: US/08/426,125  
 FILING DATE: 20-APR-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Robinson, Joseph  
 REGISTRATION NUMBER: 33,448  
 REFERENCE/DOCKET NUMBER: 0646/0A674  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212)-527-7783  
 TELEFAX: (212)-753-6237  
 TELEX: 236687  
 INFORMATION FOR SEQ ID NO: 3:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 599 amino acids  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Zea mays  
 08-426-125-3

Query Match 15.1%; Score 451; DB 2; Length 599;  
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Search completed: March 17, 2001, 21:52:20  
Job time: 2537 sec

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